



17

CUNO-407.2

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)
)
SALE, Richard et al.)
)
Serial No.: 10/737,134)
)
Filed: December 16, 2003)
)
Title: UNSUPPORTED MULTIZONE)
MICROPOROUS MEMBRANE)

Commissioner for Patents
P.O. Box 1450
Arlington, VA 22313-1450

**TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT
WITHIN THREE MONTHS OF FILING DATE OR
BEFORE MAILING OF FIRST OFFICE ACTION**

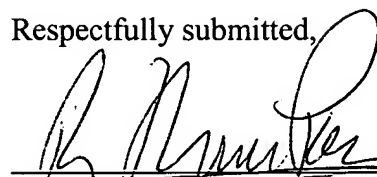
S I R:

In accordance with 37 C.F.R. §1.56, the materials listed on the attached PTO-1449 form are being brought to the Examiner's attention for consideration in connection with the examination of the above-identified patent application. Pursuant to 37 C.F.R. 1.98(d), the references cited are not enclosed because complete copies have been submitted in connection with related U.S. patent application no. 10/072,202, filed February 7, 2002; parent application number 09/923,640, filed August 7, 2001, now U.S. Patent No. 6,706,184, which is a continuation-in-part of U.S. provisional patent application no. 60/223,359, filed August 7, 2000; and of which this patent application is a Divisional Application. If the

Examiner requires copies of any of the references cited herein, please do not hesitate to contact the undersigned.

3/22/04
Date

Respectfully submitted,


R. Thomas Payne
Reg. No. 30,674

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CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date indicated below.

Date: 3.23.04


Mary K Rudatis

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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet

1

of

3

Complete if Known

Application Number	10/737,134
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Filing Date	12/16/2003
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First Named Inventor	SALE, Richard et al.
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Art Unit

Examiner Name

Attorney Docket Number | CUNO-407.2

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code (if known) ²			
		US-	3,876,738	04/1975	Marinaccio et al.	
		US-	4,001,024	01/1977	Dittman et al.	
		US-	4,203,847	05/1980	Grandine, 2nd	
		US-	4,203,848	05/1980	Grandine, II	
		US-	4,340,479	07/1982	Pall	
		US-	4,340,480	07/1982	Pall et al.	
		US-	4,489,671	12/1984	Choinski	
		US-	4,629,563	12/1986	Wrasidlo	
		US-	4,645,602	02/1987	Barnes, Jr. et al.	
		US-	4,707,265	11/1987	Barnes, Jr. et al.	
		US-	4,770,777	09/1988	Steadly et al.	
		US-	4,774,039	09/1988	Wrasidlo	
		US-	4,854,262	08/1989	Chino et al.	
		US-	4,933,081	06/1990	Sasaki et al.	
		US-	5,171,445	12/1992	Zepf	
		US-	5,188,734	02/1993	Zepf	
		US-	5,256,357	10/1993	Hayward	
		US-	5,433,859	07/1995	Degan	
		US-	5,500,167	03/1996	Degan	
		US-	5,620,790	04/1997	Holzki et al.	

FOREIGN PATENT DOCUMENTS

[illegible]

Examiner
Signature

Date
Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP § 901.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

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Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known	
		Application Number	10/737,134		
		Filing Date	12/16/2003		
		First Named Inventor	SALE, Richard et al.		
		Art Unit			
		Examiner Name			
Sheet	3	of	3	Attorney Docket Number	CUNO-407.2

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials [*]	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		ASTM (American Society for Testing and Materials) - Designation: E 1294-89 (Reapproved 1999) Standard Test Method for Pore Size Characteristics of Membrane Filters Using Automated Liquid Porosimeter.	
		TAYLOR, Shawn David, "Two Layer Slot Coating Study of Die Geometry and Interfacial Region," Master Thesis, McMaster University, Hamilton, Ontario, Canada, July 1997.	
		KISTLER, Stephan F. et al, Editors, "Liquid Film Coating," Scientific Principles and Their Technical Implications, Chapman & Hall, 1997	
		Troller Schweizer Engineering, "Concepts and Criteria for Die Design," brochure.	

Examiner Signature		Date Considered	
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^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not

¹ Applicant's unique citation designation number

² Applicant is to place a check mark here if English language Translation is attached.

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Title: UNSUPPORTED MULTIZONE)
MICROPOROUS MEMBRANE)

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

S I R:

The following are submitted in the above identified application in compliance with 37 CFR 1.97 & 1.98:

INFORMATION DISCLOSURE STATEMENT

- ☒ 1. Pursuant to 37 CFR 1.97(b)
[within 3 months of filing or prior to 1st Office Action]
- ☐ 2. Certification Pursuant to 37 CFR 1.97(c)
[before Final Office Action or Allowance]
- ☐ 3. Fee Payment Pursuant to 37 CFR 1.97(c)
[before Final Office Action or Allowance]
- ☐ 4. Petition, Certification & Petition Fee Payment Pursuant to 37 CFR 1.97(d)
[before issue fee payment]
- ☒ 5. A list of documents on form PTO-1449 together with copies of each identified document is enclosed herewith.

This paper is submitted in accordance with:

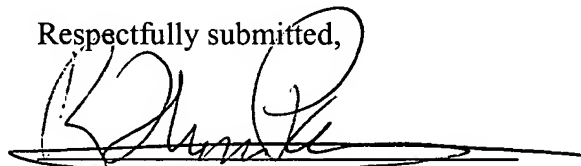
- ☒ 6. 37 CFR 1.97(b): [within 3 months of filing or prior to 1st Office Action]

- ☐ 7. 37 CFR 1.97(c): [before Final Office Action or Allowance, whichever is earlier]; and
- ☐ 8. The required certification made in item 11 below; or
- ☐ 9. The \$180.00 fee specified in 37 CFR § 1.17(p) for submission of this Information Disclosure Statement is authorized in item 14 below.
- ☐ 10. 37 CFR §1.97(d): [before issue fee payment];
- ☐ 11. Each item of information contained in this Statement was cited in a communication from a foreign patent office in a related foreign application not more than three months prior to the filing of this Statement; or
- ☐ 12. No item of information contained in this Statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the person signing this document after making reasonable inquiry, was known to any individual designated in 37 CFR 1.56(c) more than three (3) months prior to the filing of this Statement.
- ☒ 13. Please charge all applicable fees associated with the submittal of this Information Disclosure Statement to Deposit Account No. 033879. An original and one (1) copy of this document is enclosed.

3/23/04
Date

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Respectfully submitted,


R. Thomas Payne
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Date: 3-23, 2004


Mary Rudaitis

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

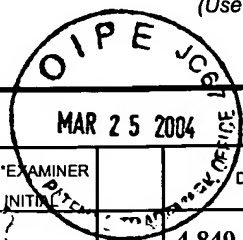
ATTY DOCKET NO.
CUNO-407.2

SERIAL NO.
10/737,134

APPLICANT(S)
SALE, Richard et al.

FILING DATE
12/16/2003

GROUP



U.S. PATENT DOCUMENTS

EXAMINER INITIALS	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	4,849,671	07/18/1989	Fendley			
	6,126,826	10/03/2000	Pacheco et al.			
	6,146,747	11/14/2000	Wang et al.			
	6,264,044	07/24/2001	Meyering et al.			
	6,280,791	08/28/2001	Meyering et al.			
	6,413,070	07/02/2002	Meyering et al.			
	6,536,605	03/25/2003	Rice et al.			
	6,536,606	03/25/2003	Schneider et al.			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER

DATE CONSIDERED

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